### STIC Biotechnology Systems Branch

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/557.351
Source:	PUTIO
Date Processed by STIC:	11/28/05
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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
  U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street,
  Alexandria, VA 22314

Revised 01/24/05

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/557,351	
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
l Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3: this will prevent "wrapping."	
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers: use space characters, instead.	
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
(NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
(NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
"bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



PCT

RAW SEQUENCE LISTING DATE: 11/28/2005
PATENT APPLICATION: US/10/557,351 TIME: 13:21:33

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2 <110> APPLICANT: Takada Pharmaceutical Company Limited
      4 <120> TITLE OF INVENTION: Antibody and its use
      6 <130> FILE REFERENCE: G05-0070
C--> 8 <140> CURRENT APPLICATION NUMBER: US/10/557,351
C--> 9 <141> CURRENT FILING DATE: 2005-11-18
     11 <150> PRIOR APPLICATION NUMBER: JP2003-151577
     12 <151> PRIOR FILING DATE: 2003-05-28
     14 <160> NUMBER OF SEQ ID NOS: 20
     16 <210> SEQ ID NO: 1
                                                                Does Not Comply
     17 <211> LENGTH: 14
                                                            orrected Diskette Needs
     18 <212> TYPE: PRT
     19 <213> ORGANISM: Artificial Sequence
     21 <220> FEATURE:
     22 <223> OTHER INFORMATION: immunogen
     24 <400> SEQUENCE: 1
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                         5
                                             10
     28 <210> SEQ ID NO: 2
     29 <211> LENGTH: 14
     30 <212> TYPE: PRT
     31 <213> ORGANISM: Artificial Sequence
     33 <220> FEATURE:
     34 <223> OTHER INFORMATION: immunogen
     36 <400> SEQUENCE: 2
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     41 <211> LENGTH: 16
     42 <212> TYPE: PRT
     43 <213 > ORGANISM: Artificial Sequence
     45 <220> FEATURE:
     46 <223> OTHER INFORMATION: immunogen
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     52 <210> SEQ ID NO: 4
     53 <211> LENGTH: 23
     54 <212> TYPE: PRT
     55 <213> ORGANISM: Homo sapiens
     57 <400> SEQUENCE: 4
     58 Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala
                                            10
     60 Ala Gly Leu Leu Met Gly Leu
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# RAW SEQUENCE LISTING DATE: 11/28/2005 PATENT APPLICATION: US/10/557,351 TIME: 13:21:33

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63 <210> SEQ ID NO: 5
64 <211> LENGTH: 30
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapiens
68 <400> SEQUENCE: 5
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71 Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp
               20
                                   25
74 <210> SEQ ID NO: 6
75 <211> LENGTH: 23
76 <212> TYPE: PRT
77 <213> ORGANISM: Rattus norvegicus
79 <400> SEQUENCE: 6
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82 Ser Gly Leu Leu Met Gly Leu
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85 <210> SEQ ID NO: 7
86 <211> LENGTH: 30
87 <212> TYPE: PRT
88 <213> ORGANISM: Rattus norvegicus
90 <400> SEQUENCE: 7
91 Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala
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93 Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp
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94
96 <210> SEQ ID NO: 8
97 <211> LENGTH: 23
98 <212> TYPE: PRT
99 <213> ORGANISM: Mus musculus
101 <400> SEQUENCE: 8
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104 Ser Gly Leu Leu Met Gly Leu
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107 <210> SEQ ID NO: 9
108 <211> LENGTH: 30
109 <212> TYPE: PRT
110 <213> ORGANISM: Mus musculus
112 <400> SEQUENCE: 9
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115 Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Gln Trp
116
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                                    25
118 <210> SEQ ID NO: 10
119 <211> LENGTH: 23
120 <212> TYPE: PRT
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DATE: 11/28/2005

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PATENT APPLICATION: US/10/557,351
                                                                                TIME: 13:21:33
                           Input Set : A:\sequence listing.txt
                           Output Set: N:\CRF4\11282005\J557351.raw
      121 <213> ORGANISM: Sus scrofa
      123 <400> SEQUENCE: 10
      124 Trp Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala
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      126 Ala Gly Leu Leu Met Gly Leu
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      130 <211> LENGTH: 30
      131 <212> TYPE: PRT
      132 <213> ORGANISM: Sus scrofa
      134 <400> SEQUENCE: 11
      135 Trp Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala
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                                                           10
      137 Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Met Trp
      138
                           20
                                                      25
      140 <210> SEQ ID NO: 12
     141 <211> LENGTH: 14

142 <212> TYPE: PRT

143 <213> ORGANISM: Artificial Sequence

145 <220> FEATURE:

146 <223> OTHER INFORMATION: Biotin-labeled peptide

148 <220> FEATURE:

149 <221> NAME/KEY: MOD_RES

150 <222> LOCATION: 14

151 <223> OTHER INFORMATION: Xaa means biotin-labeled Cys modified with Biotin

151 <223> OTHER INFORMATION: Xaa means biotin-labeled Cys modified with Biotin

151 <223> OTHER INFORMATION: Xaa means biotin-labeled Cys modified with Biotin

151 <223> OTHER INFORMATION: Xaa means biotin-labeled Cys modified with Biotin
(Long Arm) Maleimide
                    (Vector Laboratories).
      154 <400> SEQUENCE: 12
W--> 155 Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Xaa
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      158 <210> SEQ ID NO: 13
      159 <211> LENGTH: 14
      160 <212> TYPE: PRT
      161 <213> ORGANISM: Artificial Sequence
      163 <220> FEATURE:
      164 <223> OTHER INFORMATION Biotin-labeled peptide
      166 <220> FEATURE:
      167 <221> NAME/KEY: MOD_RES
      168 <222> LOCATION: 1
      169 <223> OTHER INFORMATION: Xaa means biotin-labeled Cys modified with Biotin
(Long Arm) Maleimide
      170
                    (Vector Laboratories).
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      176 <210> SEO ID NO: 14
      177 <211> LENGTH: 16
      178 <212> TYPE: PRT
      179 <213> ORGANISM: Artificial Sequence
      181 <220> FEATURE:
      182 <223> OTHER INFORMATION:/Biotin-labeled peptide
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RAW SEQUENCE LISTING

#### RAW SEQUENCE LISTING DATE: 11/28/2005 PATENT APPLICATION: US/10/557,351 TIME: 13:21:34

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    185 <221> NAME/KEY: MOD RES
    186 <222> LOCATION: 1
    187 <223> OTHER INFORMATION: Xaa means biotin-labeled Cys modified with Biotin
(Long Arm) Maleimide
             (Vector Laboratories).
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    194 <210> SEQ ID NO: 15
    195 <211> LENGTH: 328
    196 <212> TYPE: PRT
    197 <213> ORGANISM: Homo sapiens
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     202 Pro Asp Pro Ala Leu Ser Cys Ser Asn Ala Ser Thr Leu Ala Pro Leu
                                         25
     204 Pro Ala Pro Leu Ala Val Ala Val Pro Val Val Tyr Ala Val Ile Cys
                                     40
     206 Ala Val Gly Leu Ala Gly Asn Ser Ala Val Leu Tyr Val Leu Leu Arg
     208 Ala Pro Arg Met Lys Thr Val Thr Asn Leu Phe Ile Leu Asn Leu Ala
                             70
                                                 75
    210 Ile Ala Asp Glu Leu Phe Thr Leu Val Leu Pro Ile Asn Ile Ala Asp
                                             90
     212 Phe Leu Leu Arg Gln Trp Pro Phe Gly Glu Leu Met Cys Lys Leu Ile
                                         105
                     100
     214 Val Ala Ile Asp Gln Tyr Asn Thr Phe Ser Ser Leu Tyr Phe Leu Thr
                                     120
     216 Val Met Ser Ala Asp Arg Tyr Leu Val Val Leu Ala Thr Ala Glu Ser
                                 135
     218 Arg Arg Val Ala Gly Arg Thr Tyr Ser Ala Ala Arg Ala Val Ser Leu
                             150
     220 Ala Val Trp Gly Ile Val Thr Leu Val Val Leu Pro Phe Ala Val Phe
                                             170
                         165
    222 Ala Arg Leu Asp Asp Glu Gln Gly Arg Arg Gln Cys Val Leu Val Phe
                                         185
                    180
    224 Pro Gln Pro Glu Ala Phe Trp Trp Arg Ala Ser Arg Leu Tyr Thr Leu
                                                         205
                                     200
     226 Val Leu Gly Phe Ala Ile Pro Val Ser Thr Ile Cys Val Leu Tyr Thr
                                 215
     228 Thr Leu Leu Cys Arg Leu His Ala Met Arg Leu Asp Ser His Ala Lys
                             230
                                                 235
     230 Ala Leu Glu Arg Ala Lys Lys Arg Val Thr Phe Leu Val Val Ala Ile
                                             250
                         245
     232 Leu Ala Val Cys Leu Leu Cys Trp Thr Pro Tyr His Leu Ser Thr Val
                                         265
     234 Val Ala Leu Thr Thr Asp Leu Pro Gln Thr Pro Leu Val Ile Ala Ile
     235
                 275
                                     280
                                                         285
```

RAW SEQUENCE LISTING DATE: 11/28/2005
PATENT APPLICATION: US/10/557,351 TIME: 13:21:34

```
236 Ser Tyr Phe Ile Thr Ser Leu Ser Tyr Ala Asn Ser Cys Leu Asn Pro
237
       290
                            295
238 Phe Leu Tyr Ala Phe Leu Asp Ala Ser Phe Arg Asn Leu Arg Gln
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                                            315
240 Leu Ile Thr Cys Arg Ala Ala Ala
241
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243 <210> SEQ ID NO: 16
244 <211> LENGTH: 984
245 <212> TYPE: DNA
246 <213> ORGANISM: Homo sapiens
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250 ctgagctgct ccaacgcgtc gactctggcg ccgctgccgg cgccgctggc ggtggctgta
251 ccagttgtct acgcggtgat ctgcgccgtg ggtctggcgg gcaactccgc cgtgctgtac
                                                                       180
252 gtgttgctgc gggcgccccg catgaagacc gtcaccaacc tgttcatcct caacctggcc
                                                                       240
253 atcgccgacg agetetteac getggtgetg eccateaaca tegeogactt cetgetgegg
                                                                       300
254 cagtggccct tcggggagct catgtgcaag ctcatcgtgg ctatcgacca gtacaacacc
                                                                       360
255 ttctccagcc tctacttcct caccgtcatg agegecgacc gctacctggt ggtgttggcc 420
256 actgeggagt egeegget ggeeggeege acctacageg eegegegeeg ggtgageetg 480
257 gccgtgtggg ggatcgtcac actcgtcgtg ctgcccttcg cagtcttcgc ccggctagac
258 gacgagcagg gccggcgcca gtgcgtgcta gtctttccgc agcccgaggc cttctggtgg
259 egegegagee geetetaeae getegtgetg ggettegeea teecegtgte caccatetgt
                                                                      660
260 gtcctctata ccaccetgct gtgccggctg catgccatgc ggctggacag ccacgccaag
                                                                       720
261 gccctggagc gcgccaagaa gcgggtgacc ttcctggtgg tggcaatcct ggcggtgtgc
                                                                      840
262 ctcctctgct ggacgcccta ccacctgagc accgtggtgg cgctcaccac cgacctcccg
                                                                       900
263 cagacgccgc tggtcatcgc tatctcctac ttcatcacca gcctgagcta cgccaacagc
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264 tycctcaacc cettecteta eqectteetq qaeqecaqet teegeaggaa ceteegeeag
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267 <210> SEQ ID NO: 17
268 <211> LENGTH: 333
269 <212> TYPE: PRT
270 <213> ORGANISM: Homo sapiens
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275 Ser Leu Pro Thr Met Gly Ala Asn Val Ser Gln Asp Asn Gly Thr Gly
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                20
277 His Asn Ala Thr Phe Ser Glu Pro Leu Pro Phe Leu Tyr Val Leu Leu
                                                    45
                                40
279 Pro Ala Val Tyr Ser Gly Ile Cys Ala Val Gly Leu Thr Gly Asn Thr
                            55
281 Ala Val Ile Leu Val Ile Leu Arg Ala Pro Lys Met Lys Thr Val Thr
                        70
                                            75
282 65
283 Asn Val Phe Ile Leu Asn Leu Ala Val Ala Asp Gly Leu Phe Thr Leu
284
285 Val Leu Pro Val Asn Ile Ala Glu His Leu Leu Gln Tyr Trp Pro Phe
                100
                                    105
287 Gly Glu Leu Leu Cys Lys Leu Val Leu Ala Val Asp His Tyr Asn Ile
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288
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/28/2005 PATENT APPLICATION: US/10/557,351 TIME: 13:21:35

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\11282005\J557351.raw

### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.  $\sim$ 

Seq#:12; Xaa Pos. 14
Seq#:13; Xaa Pos. 1 
Seq#:14; Xaa Pos. 1

VERIFICATION SUMMARY

. . . .

DATE: 11/28/2005

PATENT APPLICATION: US/10/557,351

TIME: 13:21:35

Input Set : A:\sequence listing.txt Output Set: N:\CRF4\11282005\J557351.raw

L:8 M:270 C: Current Application Number differs, Replaced Current Application Number

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0

L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0

L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0